LCD TV AND PROJECTION-BASED BACKLIGHT SYSTEM USED THEREFOR

Abstract

An LCD TV comprises a housing, an LCD screen panel disposed on the front side of the housing, a first mirror disposed on the back side of the housing and a projection-based backlight system disposed in a lower cabinet of the housing, wherein the projection-based backlight system provides polarized light for the LCD screen panel through the first mirror. The projection-based backlight system can provide uniformly polarized light and increase polarization efficiency as well as be easily achieved by using low-cost optical components.

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